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1 A safe, efficient regression test selection technique
Gregg Rothermel, Mary Jean Harrold
April 1997   **Transactions on Software Engineering and Methodology**
Publisher: ACM   Request Permissions

Full text available: Pdf (730.74 KB)   Additional Information: full citation, abstract, re
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Regression testing is an expensive but necessary maintenance activity p
software to provide confidence that changes are correct and do not adv
the softwore. A regression test selection technique choses, ...

Keywords: regression test selection, regression testing, selective retes

2 Communications of the ACM: Volume 51 Issue 4
April 2008   Communications of the ACM
Publisher: ACM

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3 Security as a new dimension in embedded system design
Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan / Srivaths Ravi
June 2004   **DAC '04:** Proceedings of the 41st annual conference on Design
Publisher: ACM   Request Permissions

Full text available: Pdf (209.10 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 61,   Downloads (12 Months): 496,   Citatic

The growing number of instances of breaches in information security in
created a compelling case for efforts towards secure electronic systems.
will be ubiquitously used to capture, store, manipulate, and ...

Keywords: PDAs, architectures, battery life, cryptography, design, des
rights management, embedded systems, performance, security, securit
protocols, sensors, software attacks, tamper resistance, trusted comput

4
Agile enterprise software development using domain-driven design a

Einar Landre, Harald Wesenberg, Jorn Olmheim
October 2007 **OOPSLA '07:** Companion to the 22nd ACM SIGPLAN conferer
programming systems and applications companion
Publisher: ACM Request Permissions
Full text available: Pdf (312.94 KB)   Additional Information: full citation, abstract, re

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In this paper we present the experience gained and lessons learned whe
Statoil ASA, a large Oil and Gas company in Norway, applied Domain-Dr
combination with agile software development practices to assess ...

Keywords: PL/SQL, agile software development, domain-driven design
relational mapping, oracle, relational databases, test driven design, test

5 Software Testing Research: Achievements, Challenges, Dreams
Antonia Bertolino
May 2007   **FOSE '07:** 2007 Future of Software Engineering
Publisher: IEEE Computer Society
Full text available: Pdf (716.35 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 195,   Downloads (12 Months): 1936,   Cita

Software engineering comprehends several disciplines devoted to preve
and to warrant adequate behaviour. Testing, the subject of this paper, i
approach in industry, but it is still largely ad hoc, expensive, ...

6 Novice software developers, all over again
Andrew Begel, Beth Simon
September 2008 **ICER '08:** Proceeding of the fourth international workshop
research
Publisher: ACM Request Permissions
Full text available: Pdf (959.72 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 39,   Downloads (12 Months): 206,   Citatic

Transitions from novice to expert often cause stress and anxiety and rec
and support to enact efficiently. While many studies have looked at nov
students, very little research has been conducted on professional ...

Keywords: computer science pedagogy, human aspects of software en
development, training

7 Flexible provisioning of web service workflows
Sebastian Stein, Terry R. Payne, Nicholas R. Jennings
February 2009 **Transactions on Internet Technology (TOIT)** , Volume 9 Is
Publisher: ACM Request Permissions
Full text available: Pdf (1.05 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 117,   Downloads (12 Months): 336,   Citat

Web services promise to revolutionize the way computational resources

offered and invoked in open, distributed systems, such as the Internet.
using machine-readable metadata, which enables consumer ...

Keywords: Web services, semantic Web services, service composition,
oriented computing, workflows

8   Information scraps: How and why information eludes our personal in
tools
Michael Bernstein, Max Van Kleek, David Karger, M. C. Schraefel
September 2008 **Transactions on Information Systems (TOIS)** , Volume :
Publisher: ACM Request Permissions
Full text available: Pdf (6.27 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 113,   Downloads (12 Months): 604,   Citat

In this article we investigate *information scraps*—personal information v
scribbled on Post-it notes, scrawled on the corners of sheets of paper, s
email messages to ourselves, and stashed ...

Keywords: Personal information management, information scraps, not

9   The impact of software engineering research on modern progammin
Barbara G. Ryder, Mary Lou Soffa, Margaret Burnett
October 2005 **Transactions on Software Engineering and Methodology**
Publisher: ACM Request Permissions
Full text available: Pdf (3.18 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 86,   Downloads (12 Months): 507,   Citatic

Software engineering research and programming language design have
relationship, with traceable impacts since the 1970s, when these areas
one another. This report documents this relationship by ...

Keywords: Programming Languages, Software Engineering

10 An agile development methodology applied to embedded control sof
hardware constraints
Lucas Cordeiro, Carlos Mar, Eduardo Valentin, Fabiano Cruz, Daniel Patrick
Lucena
January 2008 **SIGSOFT Software Engineering Notes** , Volume 33 Issue 1
Publisher: ACM
Full text available: Pdf (499.75 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 65,   Downloads (12 Months): 375,   Citatic

In recent years, discrete control systems play an important role in the c
advancement of modern civilization and technology. Practically every as
some type of control systems. This kind of system maybe classified ...

Keywords: agile methodologies, embedded agile development, health

platform-based design, real-time software

11 TXM: an agile HW/SW development methodology for building medic
Lucas Cordeiro, Raimundo Barreto, Rafael Barcelos, Meuse Oliveira, Vicent
November 2007 **SIGSOFT Software Engineering Notes** , Volume 32 Issue 6
Publisher: ACM
Full text available: Pdf (547.61 KB)   Additional Information: full citation, abstract, re

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Arterial oxygen saturation and heart rate measured by pulse oximetry is
critical care patients. This kind of system is classified as embedded harc
requires rigorous development methodologies to guarantee the ...

Keywords: agile methodologies, embedded agile development, health
platform-based design, real-time software

12 Communications of the ACM: Volume 51 Issue 3
March 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (7.56 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 382,   Downloads (12 Months): 2293,   Cit

13 Communications of the ACM: Volume 51 Issue 7
July 2008   Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (6.54 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 3945,   Downloads (12 Months): 6536,   Ci

14 Risks to the public
Peter G. Neumann
May 2005   **SIGSOFT Software Engineering Notes** , Volume 30 Issue 3
Publisher: ACM
Full text available: Pdf (177.87 KB)   Additional Information: full citation, abstract, in

Bibliometrics: Downloads (6 Weeks): 25,   Downloads (12 Months): 241,   Citatic

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of t
Computers and Public Policy), plus personal contributions by others, as
are individual rather than organizational, and all of the usual ...

15 Designers wanted: participation and the user experience in open sou
Paula M. Bach, Robert DeLine, John M. Carroll
April 2009   **CHI '09:** Proceedings of the 27th international conference on H
            systems
Publisher: ACM Request Permissions
Full text available: Pdf (4.33 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 113,   Downloads (12 Months): 113,   Citat

We present design concepts and related mockups that support the user

hosted on CodePlex, an open source project hosting website. Rationale grounded in the open source literature and a thirteen-week study ...

Keywords: codeplex, communities of practice, design, open source sof user experience

16 Process-centered review of object oriented software development m Raman Ramsin, Richard F. Paige
February 2008 **Computing Surveys (CSUR)** , Volume 40 Issue 1
Publisher: ACM Request Permissions
Full text available: Pdf (2.86 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 269, Downloads (12 Months): 2663, Cit

We provide a detailed review of existing object-oriented software devel focusing on their development processes. The review aims at laying bar processes, and internal activities. This is done by using a ...

Keywords: Object-oriented methodologies, agile methods, integrated r engineering, seminal methodologies

17 Queue: Volume 6 Issue 1
January 2008 Queue
Publisher: ACM
Full text available: Digital Edition , Pdf (6.04 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 112, Downloads (12 Months): 563, Citat

18 Conscientious software
Richard P. Gabriel, Ron Goldman
October 2006 **OOPSLA '06:** Proceedings of the 21st annual ACM SIGPLAN c programming systems, languages, and applications
Publisher: ACM Request Permissions
Full text available: Pdf (1.52 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 205, Citatic

Software needs to grow up and become responsible for itself and its ow own installation and customization, maintaining its own health, and ada circumstances, new users, and new uses. To create such software ...

Keywords: autopoiesis, continuous (re)design, emergence, feedback, r sustaining systems, self-testing, software, software complexity, stigmer

Also published in:
October 2006 **SIGPLAN Notices** Volume 41 Issue 10

19 Using formal specifications to support testing
Robert M. Hierons, Kirill Bogdanov, Jonathan P. Bowen, Rance Cleaveland, Marian Gheorghe, Mark Harman, Kalpesh Kapoor, Paul Krause, Gerald Lütt Sergiy Vilkomir, Martin R. Woodward, Hussein Zedan

February 2009 **Computing Surveys (CSUR)** , Volume 41 Issue 2
Publisher: ACM ✦ Request Permissions
Full text available: Pdf (729.47 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 350, Downloads (12 Months): 936,   Citat

Formal methods and testing are two important approaches that assist ir
quality software. While traditionally these approaches have been seen a
new consensus has developed in which they are seen as complementary

Keywords: Software testing, formal methods

20 The information furnace: consolidated home control
Diomidis D. Spinellis
May 2003 **Personal and Ubiquitous Computing** , Volume 7 Issue 1
Publisher: Springer-Verlag
Full text available: Pdf (488.36 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 112,   Citatic

The Information Furnace is a basement-installed PC-type device that i
home-control, infotainment, security and communication technologies to
accessible and value-added services. A modern home contains ...

Keywords: Automation, Consumer electronics, Home-control, Multi-mc

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